BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work :- Construction of Old age homes and other buildings in JP PARK ward No: 17

Measurement Sheet

First and Part

Item No:	30	
Item Name:	Providing and constructing granite/basalt size stone masonry in basement with cement mortar 1:6; edges of stones chistle dressed in courses not less than 15 cms high, bond stones at 2mts apart in each course including cost of materials, labour, curing, complete as per specifications.	

CHAINAGE Land Mark	NO	L (m)	B (m)	D (m)	QTY	REMARKS
for SSM						
Western exterior side	1	9.80	0.60	0.45	2.65	
	1	9.80	0.45	0.45	1.98	
	2	5.10	0.60	0.45	2.75	
	2	5.10	0.45	0.45	2.07	
Northern side (exterior)	1	21.13	0.60	0.45	5.71	
	1	21.13	0.45	0.45	4.28	
	1	3.00	0.60	0.45	0.81	
	1	3.00	0.45	0.45	0.61	
Southern side(exterior)	1	31.62	0.60	0.45	8.54	
	1	31.62	0.45	0.45	6.40	
Eastern side (exterior)	1	21.15	0.60	0.45	5.71	
	1	21.15	0.45	0.45	4.28	
	1	4.53	0.60	0.45	1.22	
	1	4.53	0.45	0.45	0.92	
Portico allround	2	5.07	0.60	0.45	2.74	
	2	5.07	0.45	0.45	2.05	
	1	7.00	0.60	0.45	1.89	
	1	7.00	0.45	0.45	1.42	
at receeption sides	2	4.15	0.60	0.45	2.24	
	2	4.15	4.50	0.45	16.81	
stub to plinth	4	6.23	0.60	0.45	6.73	
	4	6.23	0.45	0.45	5.05	
	1	4.15	0.60	0.45	1.12	
	1	4.15	0.45	0.45	0.84	

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	Stub foundation		11	0.60	0.60	0.60	2.38	
	Open area (centre court)		2	14.17	0.60	0.45	7.65	
			2	14.17	0.45	0.45	5.74	
			2	8.26	0.60	0.45	4.46	
			2	8.26	0.45	0.45	3.35	
						Total	**112.38**	
					Approved BOQ qty		**105.00**	
					Qty payable in this Bill		**105.00**	**CUM**
					reserved qty			

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work :- Construction of Old age homes and other buildings in JP PARK ward No: 17

Measurement Sheet

First and Part

Item No:	31
Item Name:	Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, HOM curing complete as per specifications. complete as per the direction of the Engineer in-charge.

CHAINAGE Land Mark		NO	L (m)	B (m)	D (m)	QTY	REMARKS
for SSM exterior							
		1	9.80		0.45	4.41	
		2	5.10		0.45	4.59	
		1	21.13		0.45	9.51	
		1	3.00		0.45	1.35	
		1	31.62		0.45	14.23	
		1	21.15		0.45	9.52	
		1	4.53		0.45	2.04	
		11	0.60		0.60	3.96	
		2	14.17		0.45	12.75	
		2	8.26		0.45	7.43	
					Total	**69.79**	
				Approved BOQ qty		**126.50**	
			Qty payable in this Bill			**69.79**	**sqm**

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work :- Construction of Old age homes and other buildings in JP PARK ward No: 17

Measurement Sheet

First and Part

tem No:	**9**	
Item Name:	Providing and laying in position plain cement concrete of nominal mix 1:3:6 using 40mm and down size graded granite metal machine mixed, concrete laid in layers not exceeding 15 cms.thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM machinery, curing complete as per specifications. complete as per the direction of the Engineer in-charge.	

CHAINAGE		**NO**	**L**	**B**	**D**	**QTY**	**REMARKS**
Land Mark			**(m)**	**(m)**	**(m)**		
Sump tank		1	6.70	4.35	0.125	3.64	
					Total	**3.64**	
					Approved BOQ qty	**3.71**	**CUM**
					Qty payable in this Bill	**3.64**	**CUM**

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work :- Construction of Old age homes and other buildings in JP PARK ward No: 17

Measurement Sheet

First and Part

Item No:	28	
Item Name:	Providing TMT Steel reinforcement for RCC works including straightening, cutting, bending, hooking, placing in position lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary, complete as per design (laps, hooks and wastage shall not be measured and paid) cost of all materials, labour, HOM of machineries etc., complete as per specifications. complete as per the direction of the Engineer in-charge. For columns ,beams , sump tank , roof slab, misc. works.	

	Description	dia (mm)	Nos	Length	total length (in mts)	Wt kg/mt	total Wt (kgs)	REMARKS
	BOTTOM SLAB							
	bottom rod	12	22	6.50	143.00	0.89	127.11	
		12	29	4.25	123.25	0.89	109.56	
	top rd	12	22	6.50	143.00	0.89	127.11	
		12	29	4.25	123.25	0.89	109.56	
	verticals allround internal	12	132	3.50	462.00	0.89	410.67	
	external	12	132	4.10	541.20	0.89	481.07	
	longer	10	32	6.10	195.20	0.62	120.49	
	shorter side	10	32	3.75	120.00	0.62	74.07	
	BEAM	16	4	3.75	15.00	1.58	23.70	
	rings	8	25	1.38	34.50	0.40	13.63	
	TOP SLAB							
	stright beam	16	5	3.60	18.00	1.58	28.44	
	crk rd	10	23	6.10	140.30	0.62	86.60	
	on beam	10	12	2.20	26.40	0.62	16.30	
	shorter side	16	5	3.60	18.00	1.58	28.44	
	crk rd	10	36	3.75	135.00	0.62	83.33	

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	distr at crk portion	10	22	3.75	82.50	0.62	50.93	
	distribution	10	6	6.10	36.60	0.62	22.59	
						Total	1913.60	
							1.91	**Tonne**
			Qty payable in this Bill				**1.91**	**Tonne**

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Name of Work :- Construction of Old age homes and other buildings in JP PARK ward No: 17

Measurement Sheet

First and Part

Item No:	22	
Item Name:	Providing and removing centring, shuttering, strutting, propping etc., and removal of form work for columns, pillars, post and struts, circular or curved in plan including cost of all materials,labour complete as per specification and directed by the Engineer in Charge. complete as per the direction of the Engineer in-charge.	

	CHAINAGE Land Mark	NO	L (m)	B (m)	D (m)	QTY	REMARKS
	Sump Tank Roof centering	1	5.64		3.29	18.56	
	roof sides allround	1	19.70		0.30	5.91	
					Total	**24.47**	
				Approved BOQ qty		**1079.08**	
			Qty payable in this Bill			**24.47**	**sqm**

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BRUHAT BANGALORE MAHANAGARA PALIKE

ame of Work :- Construction of Old age homes and other buildings in JP PARK ward No: 17

Measurement Sheet

First and Part

em No:	19	
Item Name:	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Foundations, footings , bases of columns for mass concrete including cost of all materials, labour complete as per specifications. complete as per the direction of the Engineer in-charge.	

	CHAINAGE / Land Mark	NO	L (m)	B (m)	D (m)	QTY	REMARKS
	SUMP :-For Bed concrete	2	6.7		0.15	2.01	
		2	4.35		0.15	1.31	
	For Raft concrete shuttering	2	6.7		0.30	4.02	
		2	4.35		0.30	2.61	
					Total	**9.95**	**sqm**
			Qty payable in this Bill			**9.95**	**sqm**

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Name of Work :- Construction of Old age homes and other buildings in JP PARK ward No: 17

Measurement Sheet

First and Part

Item No:	29		
Item Name:	Providing and placing un-coated TMT steel reinforcement for RCC work including straightening, cutting, bending, hooking, placing in position of lappingand/ or welding wherever reqd,tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (flats, hooks, & wastages shall not be measured and paid) including cost of all materials, labour, HOM of machineries etc., complete as per specifications. complete as per the direction of the Engineer in-charge.		

	PILE CAP					(kgs)		
Des	Dia of bars (mm)	No	L (mts)	Total length	TOTAL pile caps	WEIGHT (in kgs)		Remarks
	PC3							
Des								
bottom	16 mm	9	2.85	25.65	66	2674.78		
top	16mm	9	2.85	25.65	66	2674.78		
	12 mm	10	2.30	23.00	66	1351.02		
	RINGS							
OUTER	10	14	2.60	36.4	66	1489.49		
INNER	10	42	1.80	75.6	66	3093.55		
	PC1							
bottom	12	19	1.40	26.6	4	94.70		
top	12	19	1.40	26.6	4	94.70		
	RINGS							
OUTER	10	9	3.30	29.7	4	73.66		
INNER	10	9	3.30	29.7	4	73.66		
	PC2							
bottom	12	19	1.40	26.6	10	236.74		
top	12	19	1.40	26.6	10	236.74		

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RINGS								
OUTER	10	9	3.30	29.7	10	184.14		
INNER	10	9	3.30	29.7	10	184.14		
				TOTAL(KGS)		12462.09	12.46	
							12.46	Tonne
			Qt Of Steel Pile Foundation Vide From				28.91	Tonne
				Total Work Done Qty			41.37	Tonne
				Approved BOQ qty			38.97	Tonne
				Qty payable in this Bill			38.97	Tonne
				Qty reserved			2.40	Tonne

E.E(P) RRN AEE(P)-2 RRN

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work :- Construction of Old age homes and other buildings in JP PARK ward No: 17

Measurement Sheet

First and Part

Item No:	28	
Item Name:	Providing TMT Steel reinforcement for RCC works including straightening, cutting, bending, hooking, placing in position lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary, complete as per design (laps, hooks and wastage shall not be measured and paid) cost of all materials, labour, HOM of machineries etc., complete as per specifications. complete as per the direction of the Engineer in-charge. For columns ,beams , sump tank , roof slab, misc. works.	

	Description	dia (mm)	Nos	Length	total length (in mts)	Wt kg/mt	total Wt (kgs)	REMARKS
	COLUMNS							
		Dia of rod (mm)	Nos in each column	Length	total length (in mts)	No of similar colums		
	(230X 600)							
		20	12	6.00	72.00	3	531.36	
	Stirrups @ 230c/c full ring	8	18	1.60	28.87	3	33.78	
	half rings-3 nos	8	18	1.40	25.27	9	88.70	
	Column -C 9 (230X 600)							
		20	4	6.00	24.00	3	177.12	
		16	8	6.00	48.00	3	227.52	
	Stirrups @ 230c/c full ring	8	18	1.62	29.16	3	34.12	
	half rings- 3 nos	8	18	1.42	25.56	9	89.72	
	Column -C 8 (230X 600)							
		16	8	6.00	48.00	5	379.20	
		12	4	6.00	24.00	5	107.40	

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	Stirrups @ 230c/c full ring	8	18	1.62	29.16	5	56.86	
	half rings - 3nos	8	18	1.42	25.56	15	149.53	
	Column -C 7(230X 450)							
		20	8	6.00	48.00	18	2125.44	
	Stirrups @ 230c/c full ring	8	18	1.32	23.76	18	166.80	
	half ring - 1 nos	8	18	1.02	18.36	18	128.89	
	Column -C 6(230X 450)							
		16	8	6.00	48.00	28	2123.52	
	Stirrups @ 230c/c full ring	8	23	1.32	30.36	28	331.53	
	half ring - 1 nos	8	23	1.02	23.46	28	256.18	
	Column -C 5(230X 450)							
		12	8	6.00	48.00	9	386.64	
	Stirrups @ 230c/c full ring	8	23	1.30	29.99	9	105.27	
	half ring - 1 nos	8	23	1.02	23.46	9	82.34	
	Column -C 4(230X 230)							
		20	4	6.00	24.00	2	118.08	
	Stirrups @ 230c/c	8	18	0.88	15.84	2	12.36	
	Column -C 3(230X 230)							
		12	4	6.00	24.00	8	171.84	
	Stirrups @ 190c/c	8	23	0.88	20.24	8	63.15	
	Column -C 2(300 dia)							
		20	6	6.00	36.00	2	177.12	

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	Stirrups @ 190c/c	8	23	1.01	23.18	2	18.08	
	Column -C 1(300 dia)							
		12	6	6.00	36.00	2	64.44	
	Stirrups @ 190c/c	8	23	1.01	23.18	2	18.08	
						Total	8225.06	
							8.23	**Tonne**
			Qty payable in this Bill				**8.23**	**Tonne**

AEE(P)-2 RRN

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work :- Construction of Old age homes and other buildings in JP PARK ward No: 17

Measurement Sheet

First and Part

Item No:	19	
Item Name:	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Foundations, footings , bases of columns for mass concrete including cost of all materials, labour complete as per specifications. complete as per the direction of the Engineer in-charge.	

CHAINAGE / Land Mark	NO	L (m)	B (m)	D (m)	QTY	REMARKS
PCC for pile cap						
Double pile footing	66	7.60		0.15	75.24	
single cap footing	14	4.40		0.15	9.24	
Pile cap shuttering						
Double pile footing	66	6.40		0.50	211.20	
single cap footing	14	3.40		0.50	23.80	
				Total Qty	**319.48**	
Vide Page : 38 Qty of sump Cetering Item No Vide From					9.95	
				Total Work Done	**329.43**	sqm
				Approved BOQ qty	**414.86**	sqm
				Qty payable in this Bill	**329.43**	sqm

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work :- Construction of Old age homes and other buildings in JP PARK ward No: 17

Measurement Sheet

First and Part

Item No:	11	
Item Name:	Cement Concrete for Reinforced Concrete in Pile Cap per Drawing and Technical Specification complete as per specifications. C. RCC with OPC cement design mix M30 @ 360kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008. Case-I: Using Concrete Mixer MORTH Specification No.1100, 1500 & 1700, complete as per the direction of the Engineer in-charge.	

	CHAINAGE Land Mark		NO	L (m)	B (m)	D (m)	QTY	REMARKS
	PC1		66	0.85	2.35	0.5	77.55	
			14	0.85	0.85	0.5	5.95	
						Total	83.50	
					Approved BOQ qty		84.40	CUM
					Qty payable in this Bill		83.50	CUM

EE (P) R.R.N AEE(P)-2 RRN

Contractor Representative

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